RSW920010141US1
Berman et al.
Method and Apparatus for Minimizing Inconsistency Between
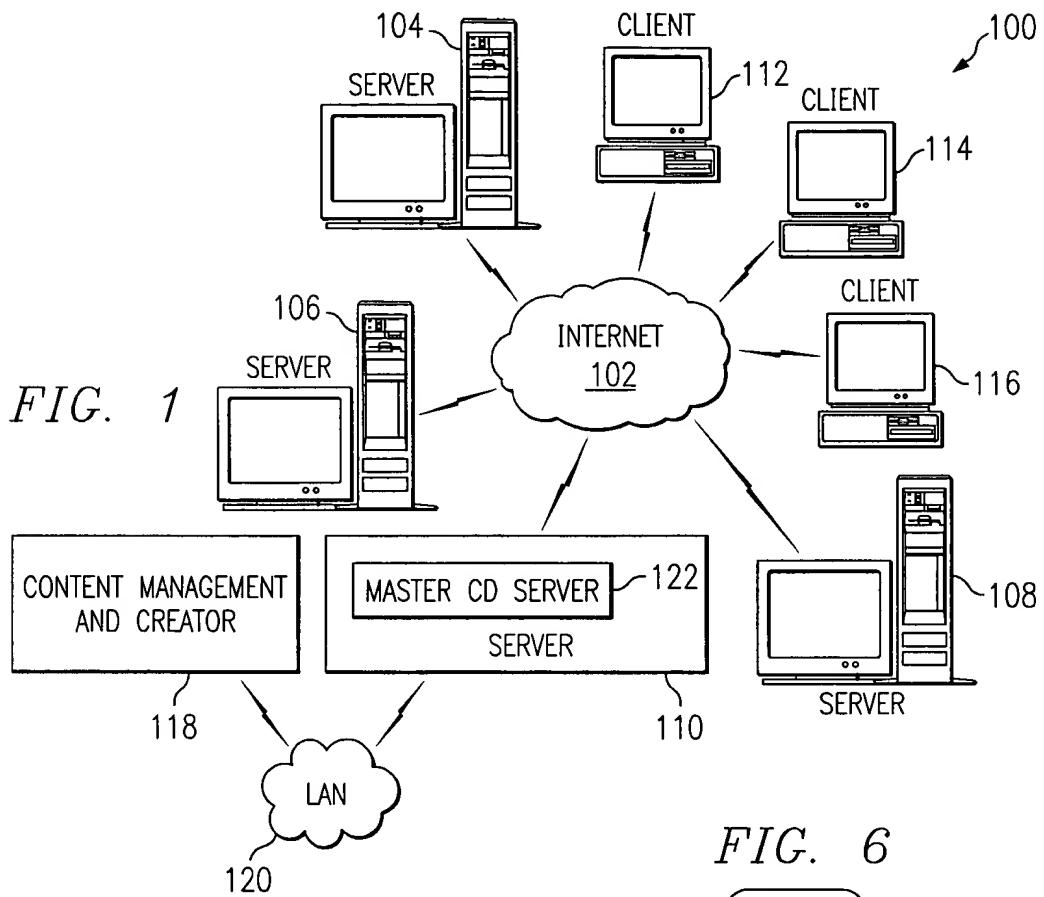Data Sources in a Web Content Distribution System
1/3

FIG. 1

SERVER 104

CLIENT 112

CLIENT 114

CLIENT 116

100

INTERNET 102

SERVER 106

SERVER 108

CONTENT MANAGEMENT AND CREATOR	MASTER CD SERVER — 122
	SERVER

118

110

LAN

120

FIG. 7

START

700 — IDENTIFY UNPROCESSED CUSTOMER FROM DATABASE

702 — RETRIEVE BILLING STRUCTURE FOR CUSTOMER

704 — GENERATE BILL FOR CONTENT SERVICE USING BILLING STRUCTURE

END

FIG. 6

START

RECEIVE REQUEST FROM CUSTOMER TO HOST CONTENT — 600

SEND CONTRACT TERMS — 602

CONTRACT ACCEPTED? — 604

NO

YES

REQUEST CUSTOMER INFORMATION — 606

RECEIVE RESPONSE — 608

SET UP CUSTOMER — 610

END

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Berman et al.
Method and Apparatus for Minimizing Inconsistency Between
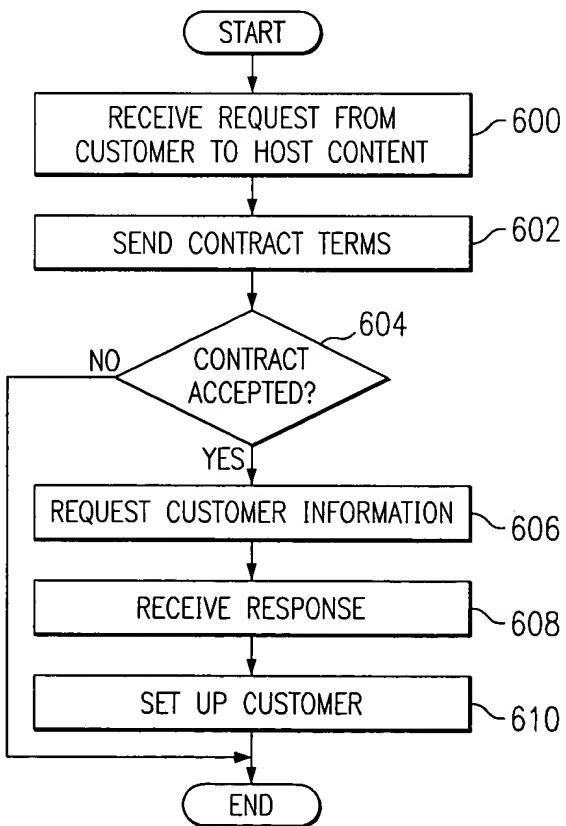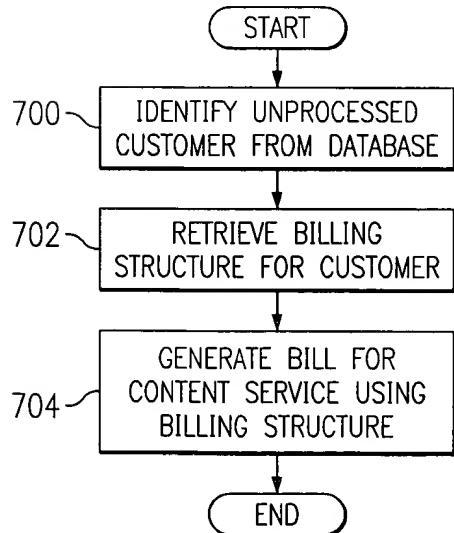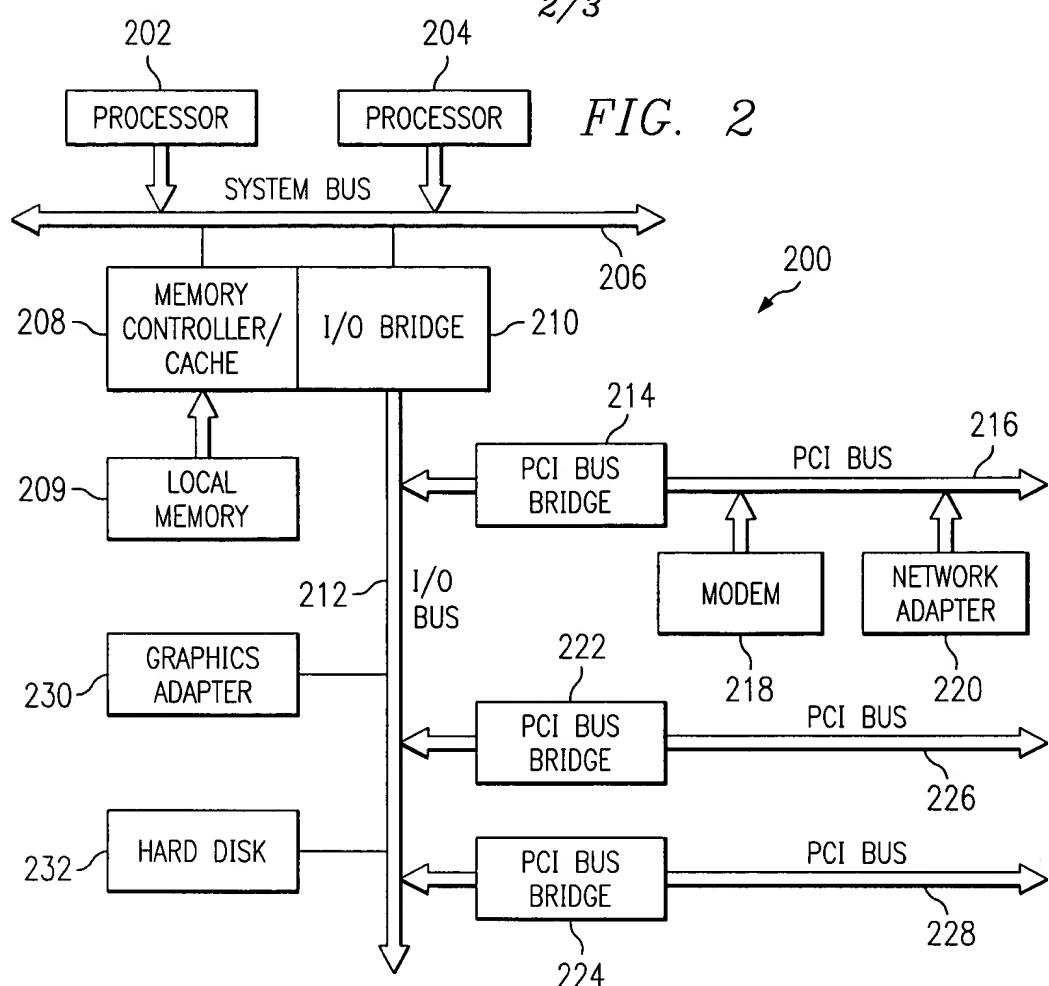Data Sources in a Web Content Distribution System
2/3

FIG. 2

202 PROCESSOR

204 PROCESSOR

SYSTEM BUS

206

200

208 MEMORY CONTROLLER/ CACHE

210 I/O BRIDGE

209 LOCAL MEMORY

214 PCI BUS BRIDGE

PCI BUS 216

212 I/O BUS

MODEM 218

NETWORK ADAPTER 220

230 GRAPHICS ADAPTER

222 PCI BUS BRIDGE

PCI BUS 226

232 HARD DISK

PCI BUS BRIDGE

PCI BUS 228

224

FIG. 3

300 WEB SERVER

TEMPORARY STORAGE 306

AVAILABLE CONTENT 308

304 ORIGINATING WEB SERVER

314 CLIENT

BROWSER 316

302 WEB SERVER
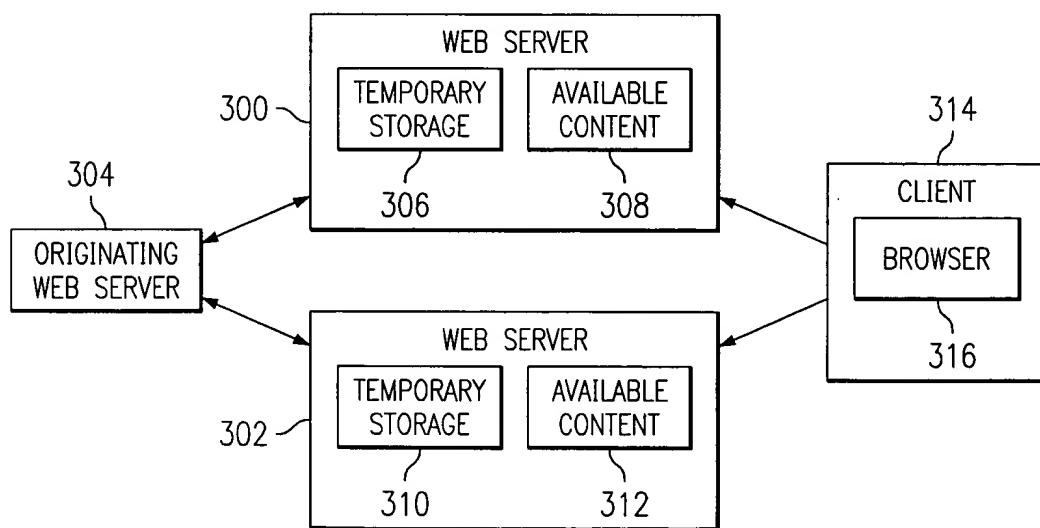
TEMPORARY STORAGE 310

AVAILABLE CONTENT 312

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Berman et al.
Method and Apparatus for Minimizing Inconsistency Between
Data Sources in a Web Content Distribution System
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FIG. 4

START

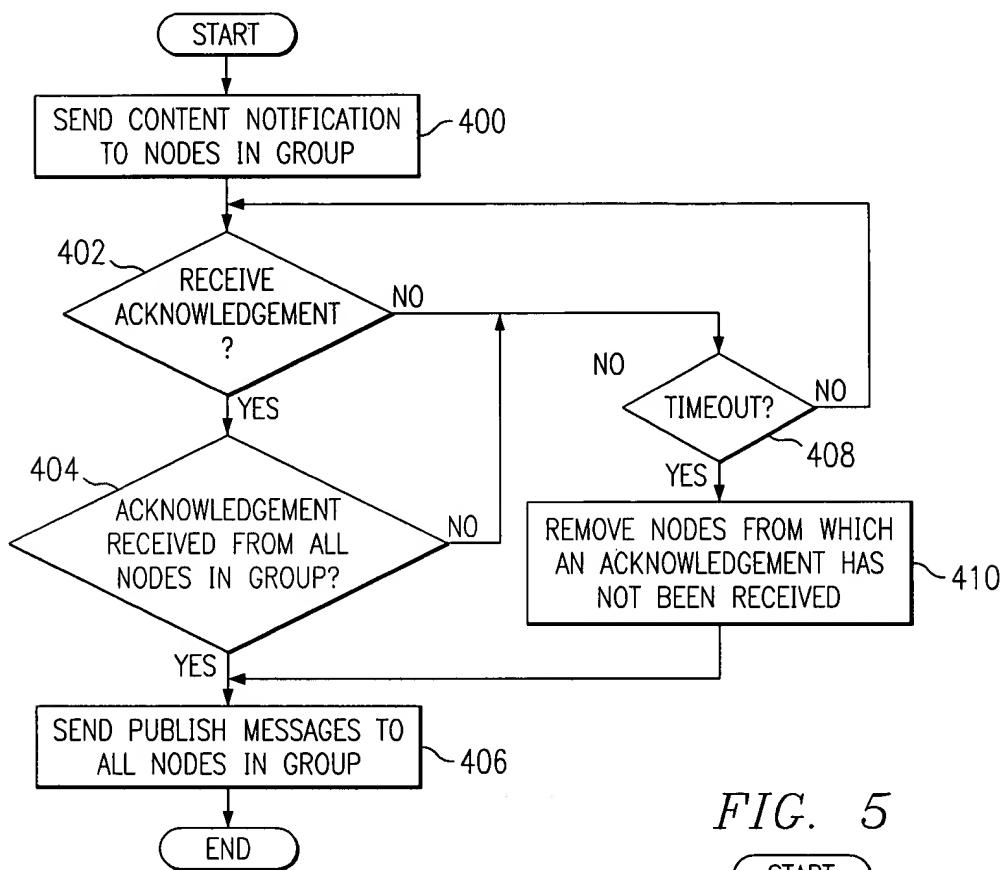SEND CONTENT NOTIFICATION TO NODES IN GROUP —— 400

402 —— RECEIVE ACKNOWLEDGEMENT ? —— NO

YES

404 —— ACKNOWLEDGEMENT RECEIVED FROM ALL NODES IN GROUP? —— NO

NO —— TIMEOUT? —— NO —— 408

YES

REMOVE NODES FROM WHICH AN ACKNOWLEDGEMENT HAS NOT BEEN RECEIVED —— 410

YES

SEND PUBLISH MESSAGES TO ALL NODES IN GROUP —— 406

END

FIG. 5

START

RECEIVE NEW CONTENT MESSAGE —— 500

RECEIVE CONTENT —— 502

504 —— ALL CONTENT RECEIVED? —— NO

YES

SEND ACKNOWLEDGEMENT —— 506

WAIT FOR PUBLISH MESSAGE —— 508

MAKE NEW CONTENT AVAILABLE TO REQUESTS —— 510

END